

WHAT IS CLAIMED IS:

1. A process of screening compounds to identify antagonists of PSR comprising:
  - (a) combining a protein comprising a polypeptide having the amino acid sequence of SEQ ID NO:2, or active fragments thereof with a compound that forms a complex with the protein; and
  - (b) determining the ability of the compound to prevent the biological action of PSR.
2. The process of claim 1, wherein said compound is an antibody.
3. The process of claim 1, wherein said compound is a small molecule.
4. The process of claim 3, wherein said small molecule is a peptide or peptide-like molecule.
5. The process of claim 1, wherein said protein is immobilized.
6. A process of screening compounds to identify antagonists of PSR comprising:
  - (a) combining a protein comprising a polypeptide having the amino acid sequence of SEQ ID NO:2, or active fragments thereof, with elements which undergo simultaneous oxidation and reduction in the presence of the compound to be screened under conditions where an oxidation reduction reaction normally takes place; and
  - (b) determining the ability of the compound to inhibit the reaction.
7. The process of claim 6, wherein said compound is an antibody.
8. The process of claim 6, wherein said compound is a small molecule.
9. The process of claim 8, wherein said small molecule is a peptide or peptide-like molecule.
10. The process of claim 6, wherein said protein is immobilized.
11. The process of claim 6, wherein the elements are Hydrogen and Oxygen.

12. A process of screening compounds to identify antagonists of PSR comprising:
  - (a) combining a protein comprising a polypeptide having the amino acid sequence of SEQ ID NO:2, or active fragments thereof in a competition assay, wherein the protein is contacted with a natural substrate for PSR and a compound; and
  - (b) determining the ability of the compound to compete with the natural substrate in a manner sufficient to prevent binding of PSR to said natural substrate.
13. The process of claim 12, wherein the protein is immobilized.
14. The process of claim 12, wherein said natural substrate is immobilized.
15. The process of claim 12, wherein said natural substrate is labeled.
16. The process of claim 12, wherein said compound is labeled.
17. The process of claim 12, wherein the protein is labeled.
18. The process of claim 12, wherein said compound is an antibody.
19. The process of claim 12, wherein said compound is a small molecule.
20. The process of claim 19, wherein said small molecule is a peptide or peptide-like molecule.
21. A process of screening compounds to identify antagonists of PSR comprising:
  - (a) combining a protein comprising a polypeptide having the amino acid sequence encoded by the cDNA contained in ATCC Deposit No. 75913, or active fragments thereof with a compound that forms a complex with the protein; and
  - (b) determining the ability of the compound to prevent the biological action of PSR.
22. The process of claim 21, wherein said compound is an antibody.
23. The process of claim 21, wherein said compound is a small molecule.

24. The process of claim 23, wherein said small molecule is a peptide or peptide-like molecule.
25. The process of claim 21, wherein said protein is immobilized.
26. A process of screening compounds to identify antagonists of PSR comprising:
- (a) combining a protein comprising a polypeptide having the amino acid sequence encoded by the cDNA contained in ATCC Deposit No. 75913, or active fragments thereof, with elements which undergo simultaneous oxidation and reduction in the presence of the compound to be screened under conditions where an oxidation reduction reaction normally takes place; and
  - (b) determining the ability of the compound to inhibit the reaction.
27. The process of claim 26, wherein said compound is an antibody.
28. The process of claim 26, wherein said compound is a small molecule.
29. The process of claim 28, wherein said small molecule is a peptide or peptide-like molecule.
30. The process of claim 26, wherein said protein is immobilized.
31. The process of claim 26, wherein the elements are Hydrogen and Oxygen.
32. A process of screening compounds to identify antagonists of PSR comprising:
- (a) combining a protein comprising a polypeptide having the amino acid sequence encoded by the cDNA contained in ATCC Deposit No. 75913, or active fragments thereof in a competition assay, wherein the protein is contacted with a natural substrate for PSR and a compound; and
  - (b) determining the ability of the compound to compete with the natural substrate in a manner sufficient to prevent binding of PSR to said natural substrate.
33. The process of claim 32, wherein the protein is immobilized.
34. The process of claim 32, wherein said natural substrate is immobilized.

35. The process of claim 32, wherein said natural substrate is labeled.
36. The process of claim 32, wherein said compound is labeled.
37. The process of claim 32, wherein the protein is labeled.
38. The process of claim 32, wherein said compound is an antibody.
39. The process of claim 32, wherein said compound is a small molecule.
40. The process of claim 39, wherein said small molecule is a peptide or peptide-like molecule.